



Sheet 1 of 4

FORM PTO-1449 LIST OF REFERENCES CITED BY APPLICANT				ATTY. DOCKET NO. VTE-152-B		SERIAL NO. 10/817,511	
				APPLICANT Bugel et al.			
				FILING DATE April 2, 2004		GROUP 3745	
U. S. PATENT DOCUMENT							
EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>7/20/</i>	AA	6,567,255	5/20/2003	Panzer et al.			
	AB	6,453,261	9/17/2002	Boger et al.			
	AC	6,431,340	8/13/2002	Ineson et al.			
	AD	6,305,264	10/23/2001	Yang et al.			
	AE	6,291,928	9/18/2001	Lazarus et al.			
	AF	6,230,606	5/15/2001	Sato			
	AG	6,085,632	7/11/2000	Stoll et al.			
	AH	6,003,428	12/21/1999	Mundie et al.			
	AI	5,950,668	9/14/1999	Baumann			
	AJ	5,587,536	12/24/1996	Rasmussen			
	AK	5,465,021	11/7/1995	Visscher et al.			
FOREIGN PATENT OR PUBLISHED PATENT APPLICATION							
		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
<i>7/20/</i>	AL	61296/81	27-12-86	Europe Japan			
	AM	0 325 764	02.08.89	Europe			
	AN	01185175	24.07.89	Europe Japan			
	AO	WO 01/78160		PCT			
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)							
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EXAMINER <i>L. Shopy</i>				DATE CONSIDERED <i>9/26/05</i>			
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U. S. PATENT DOCUMENT

EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>TAC</i>	AA	5,425,941	6/20/1995	Wilson et al.	1		
	AB	5,424,941	6/13/1995	Bolt et al.			
	AC	5,388,751	2/14/1995	Harada et al.			
	AD	5,333,455	8/2/1994	Yoshioka			
	AE	5,211,196	5/18/1993	Schwelm			
	AF	5,154,207	10/13/1992	Bolt			
	AG	4,932,311	6/12/1990	Mibu et al.			
	AH	4,901,625	2/20/1990	Bussan et al.			
	AI	4,878,417	11/7/1989	Facon			
	AJ	4,819,543	4/11/1989	Leinen			
<i>V</i>	AK	4,808,874	2/28/1989	Stahlhuth			

FOREIGN PATENT OR PUBLISHED PATENT APPLICATION

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J. Shepp

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9/26/05

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				FILING DATE April 2, 2004		GROUP 3745	
U. S. PATENT DOCUMENT							
EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>[Signature]</i>	AA	4,790,233	12/13/1988	Backe et al.			
	AB	4,763,560	8/16/1988	Sasaki			
	AC	4,741,247	5/3/1988	Glomeau et al.			
	AD	4,736,131	4/5/1988	Fujimoto			
	AE	4,628,499	12/9/1986	Hammett			
	AF	4,481,768	11/13/1984	Goshorn et al.			
	AG	4,481,451	11/6/1984	Kautz et al.			
	AH	4,450,753	5/29/1984	Basrai et al.			
	AI	4,379,335	4/5/1983	Kirsch et al.			
	AJ	4,121,504	10/24/1978	Nowak			
	✓	AK	4,106,390	8/15/1978	Kodaira et al.		
FOREIGN PATENT OR PUBLISHED PATENT APPLICATION							
		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
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				APPLICANT Bugel et al.			
				FILING DATE April 2, 2004		GROUP 3745	
U. S. PATENT DOCUMENT							
EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>TPR</i>	AA	4,080,873	3/28/1978	Bauer et al.	 	 	
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FOREIGN PATENT OR PUBLISHED PATENT APPLICATION							
		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
<i>TPR</i>	AL	US 2001/0030306	✓ 11/18/2001	Moler et al.	 	 	
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EXAMINER	<i>TPR</i>			DATE CONSIDERED <i>9/26/03</i>			
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* Previously cited



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FORM PTO-1449 LIST OF REFERENCES CITED BY APPLICANT				ATTY. DOCKET NO. VTE-152-B		SERIAL NO. 10/817,511	
				APPLICANT John Bugel, Jeff Moler & Mark Oudshoorn			
				FILING DATE April 2, 2004		GROUP 3745	
U. S. PATENT DOCUMENT							
EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>TBL</i>	AA	6,759,790	7/6/2004	Bugel et al.	1	1	
	AB	6,642,067	11/4/2003	Dwyer			
	AC	6,548,938	4/15/2003	Moler et al.			
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		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
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EXAMINER <i>J. D. Ropy</i>				DATE CONSIDERED <i>9/26/05</i>			
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VTE-152-B

SERIAL NO.

10/817,511

APPLICANT

John Bugel, Jeff Moler & Mark Oudshoorn

FILING DATE

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U. S. PATENT DOCUMENT

EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>[Signature]</i>	AA	3,099,289	07/30/1963	J. C. Neilson et al			
<i>[Signature]</i>	AB	5,546,847	08/20/1996	Rector et al	91	403	
<i>[Signature]</i>	AC	6,467,264	10/22/2002	Stephenson et al	60	460-368	
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FOREIGN PATENT OR PUBLISHED PATENT APPLICATION

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LIST OF REFERENCES CITED BY APPLICANT	ATTY. DOCKET NO. VTE-152-B	SERIAL NO. 10/817,511
	APPLICANT John Bugel	
	FILING DATE April 2, 2004	GROUP 3475

U. S. PATENT DOCUMENT

EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
JBL	AA	6,523,451	02-25-2003	Liao et al.			
	AB	6,234,060	05-22-2001	Jolly			
	AC	5,881,767	03-16-1999	Loser			
	AD	5,431,086	07-1995	Morita et al.			
✓	AE	5,271,226	12-21-1993	Stone			
	AF						

FOREIGN PATENT OR PUBLISHED PATENT APPLICATION

		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
JBL	AL	GB2203195A	10-1988	UK			
	AM	DE 101 222 97C1	06-2002	Germany			
	AN	EP 1 391 647	06-17-2003	Europe			
✓		DE 199 12 334 A1	09-28-2000	Germany			

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JBL		Kenji Okiyama and Ken Ichiryu; STUDY OF PNEUMATIC MOTION BASE CONTROL CHARACTERISTICS; Tokyo University of Technology
	AO	Karim Khayati, Pascal Bigras, and Louis-A. Dessaint; NONLINEAR CONTROL OF PNEUMATIC SYSTEMS; Ecole de Technologie Supérieure; 1100, rue Notre-Dame Ouest, Montreal (Quebec) H3C 1K3
	AP	HIGH SPEED SERVO PNEUMATIC ACTUATOR SYSTEMS; (modified on 13 January 2004); Design of High Speed Machinery (DHSM) LINK Programme; Engineering & Physical Sciences Research Council; Department of Trade & Industry; March 1995 to August 1997, Grant Reference: GR/K38663
	AR	Journal of Zhejiang University SCIENCE; (ISSN 1009-3095, Monthly), 2001 vol. 2, no. 2, pages 128-131; CLC Number: TP271, 32; Document Code: A; RESEARCH ON THE CONTINUOUS POSITIONING CONTROL TO SERVO-PNEUMATIC SYSTEM; Tao Guo-liang, Wang Xuan-yin, & Lu Yong-xiang
	AS	MODELING AND SIMULATION OF A SERVOPNEUMATIC GRIPPER; Salvador Esque and Jose LM Lastra, date 10 Dec 99
	AT	MODIFIED FEEDBACK LINEARIZATION CONTROLLER FOR PNEUMATIC SYSTEM WITH NON-NEGLIGIBLE CONNECTION PORT RESTRICTION; Pascal Bigras, Karim Khayati, Tony Wong; University of Quebec
✓	AU	ND9000 INTELLIGENT VALVE CONTROLLER; METSO AUTOMATION; date: July 7/2003

EXAMINER <i>J. D. Hays</i>	DATE CONSIDERED <i>9/27/05</i>
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				APPLICANT John Bugel	
				FILING DATE April 2, 2004	GROUP 3745
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)					
JTB	AF	INTRODUCING PRECISIONAIRE – A BREAKTHROUGH PNEUMATIC MOTION SYSTEM			
	AG	AXIS CONTROLLER SPC 200; Festo AG&Co.; Products 2001			
	AH	KUHNE "SPEEDY" Machine Building Process Module; Switched Pneumatic Electrical Endposition Damping-E635 GM/02 92.652			
	AI	SWITCHED PNEUMATIC ELECTRICAL ENDPOSITION DAMPING; Werner Brockman; University of Lubeck Institute of Computer Engrg. Lubeck, Germany			
V	AJ	BLOCK-ORIENTED NONLINEAR CONTROL OF PNEUMATIC ACTUATOR SYSTEMS; fulin Xiang; Doctoral Thesis, Mechatronics Lab, Department of Machine Design, Royal Institute of Technology, KTH; S-100 44, Stockholm, Sweden, 2001.			
	AK	HYDRAULIC & PNEUMATIC ACTUATORS; Sensors & Actuators for Mechatronics Hydraulic and Pneumatic Actuators; K. Craig.			
	AL	ADAPTIVE NEURON CONTROL BASED ON PREDICTIVE MODEL IN PNEUMATIC SERVO SYSTEM; Huang Wenmei, Yang Yong, Tang Yali; College of Mechanical and Automotive Engrg. Hunan University, 410082, Changsha, Huna, P.R. China.			
	AM	PROPNEU – AN INTELLIGENT SOFTWARE TOOL; Hong Zhou, Ph.D., Festo AG & Co., Ruitersstr, 82, D-73734, Esslingen, Germany			
	AN	PNEUMATIC SERVO SYSTEMS CONTROLLED BY SELF-TUNING FUZZY RULES; Akira Shimizu, Satoru Shibata, and Mitsuru Jindai, Dept. of Mech. Eng. Ehime University, 3, Bunkyo-cho, 790-8577, Matsuyama, Ehime, Japan.			
	AO	MODELICA – Proceedings of the 3 rd International Modelica Conference, Linkoping, November 3-4, 2003, Peter Fritzson (editor)			
	AP	HIGH STEADY-STATE ACCURACY PNEUMATIC SERVO POSITIONING SYSTEM WITH PVA/PV CONTROL AND FRICTION COMPENSATION; Shu Ning and Gary M. Bone; Dept. of Mechanical Engrg., McMaster University, Hamilton, Ontario, Canada, L8S 4L7. Proceedings of the 2002 IEEE, International Conference on Robotics & Automation, Washington, DC – May 2002			
	AR	A HYBRID PNEUMATIC/ELECTROSTATIC MILI-ACTUATOR; Kenneth H. Chiang, Ronald S. Fearing; ROBOTICS AND INTELLIGENT MACHINES LABORATORY; Dept. of Electrical Engrg. And Computer Sciences; 265M Cory Hall, University of California, Berkeley, CA 94720-1770			
	AS	MODELING IDENTIFICATION, AND CONTROL OF A PNEUMATICALLY ACTUATED, FORCE CONTROLLABLE ROBOT; J.E. Bobrow and B.W. McDonell; Irvine, California 92697			
	AT	MODELLING AND SIMULATION OF PNEUMATIC CYLINDERS FOR A PHYSIOTHERAPY ROBOT; R. Richardson, A.R. Plummer, M. Brown; School of Mechanical Engrg., University of Leeds, UK; Instron Ltd., UK			
EXAMINER		DATE CONSIDERED			
JTB		9/27/05			
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LIST OF REFERENCES CITED BY
APPLICANTATTY. DOCKET NO.
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10/817,511APPLICANT
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U. S. PATENT DOCUMENT

EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>TD</i>	AA	4,431,873	2/14/1984	Dunn et al.			
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FOREIGN PATENT OR PUBLISHED PATENT APPLICATION

		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
<i>TD</i>	AJ	2004/0125472	7/01/20004	U.S.			
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER *T. D. Brown*DATE CONSIDERED *9/26/05*

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FORM 1449 LIST OF REFERENCES CITED BY APPLICANT	ATTY. DOCKET NO. VTE-152-B	SERIAL NO. 10/817,511
	APPLICANT Bugel et al.	
	FILING DATE 04/2/2004	GROUP 3745

U. S. PATENT DOCUMENT

EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>mm</i>	AA	6,870,305	3/22/05	Moler	<i>/</i>	<i>/</i>	5/14/04
<i>↓</i>	AB	4,686,338	8/11/1987	Kashiwagi et al.	<i>/</i>	<i>/</i>	2/6/1985
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<i>mm</i>	AS	US 2004/0035106	2/26/2004	US	<i>/</i>	<i>/</i>	N/A
<i>↓</i>	AR	US 2004/0045148	3/11/2004	US	<i>/</i>	<i>/</i>	N/A
<i>↓</i>	AO	JP-60-180026	9/13/1985	Japan	<i>/</i>	<i>/</i>	US 4,686,338

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER <i>T. Shopp</i>	DATE CONSIDERED <i>9/26/05</i>
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